

Agenda of the IEEE Materials Subcommittee of the Electric Machinery Committee

Date: Wednesday, 13 June, 2012

Location: San Juan, Puerto Rico (in conjunction with ISEI 2012)

1. Meeting call to order, Review agenda, Introductions and Attendance sheet.

MSC Chairman: Nancy Frost, Vice Chair: Aleksandra Jeremic, Secretary: Paul Gaberson

2. Approval of the Minutes of the Last Meeting.

3. Chair's Comments:

- **Many thanks to Don Campbell and the ISEI team for hosting our IEEE Materials Subcommittee meetings.**
- **IEEE Standards Association requires that a request be made at **each** WG meeting for disclosure (identification) of any patents or copyrights that may be related to this work.** The chair or the chair's delegate of an IEEE standards-developing working group or the chair of an IEEE standards Sponsor shall be responsible for informing the members of the working group/participants at a meeting that if any individual believes that Patent Claims might be Essential Patent Claims, that fact should be made known to the entire working group and duly recorded in the minutes of the working group meeting. This request shall occur at every standards developing meeting once the PAR is approved by the IEEE-SA Standards Board.

The chair or the chair's delegate shall ask any patent holder or patent applicant of a Patent Claim that might be or become an Essential Patent Claim to complete and submit a Letter of Assurance in accordance with Clause 6 of the IEEE-SA Standards Board Bylaws. Information about the draft standard will be made available upon request.

- **It is strongly suggested that copyright forms** for figures or images be gathered as they are entered into the draft standards, so that credit for said images and figures are maintained from the beginning.

4. Standards Coordinator Report and Discussion

5. Working Group Reports and Discussion (red is update given at Toronto meeting Fall 2011)

- *43-2000 (reaff 2006) IEEE Recommended Practice for Testing Insulation Resistance of Rotating Machinery, Chair: Ian Culbert*
- *56-1977 (reaff 1991) IEEE Guide for Insulation Maintenance of Electric Machines Rated 35 kVA and Higher, Chair: Doug Conley, Vice Chair: Dave McKinnon*
- *95-2002 (reaff 2007) IEEE Recommended Practice for Insulation Testing of Large AC Rotating Machinery with Direct Voltage, Chair: Dave McKinnon*

- *117-1974 (reaff 1991) IEEE Standard Test Procedure for Evaluation of Systems of Insulating Materials for Random-Wound AC Electric Machinery, Chair: Nancy Frost*
- *286-2000 (reaff 2006) IEEE Recommended Practice for Measurement of Power Factor and Power Factor Tip-up of Rotating Machinery Stator Coil Insulation, Chair: Gary Heuston*
- *304-1977 (reaff 1991) IEEE Standard Test Procedure for Evaluation and Classification of Insulation Systems for Direct-Current Machines*
- *433- (2009) IEEE Recommended Practice for Insulation Testing of Large AC Rotating Machinery with High Voltage at Very Low Frequency*
- *434-2006 IEEE Guide for Functional Evaluation of Insulation Systems for AC Electric Machines Rated 2300 Volts and Higher, Chair: Stefano Bomben*
- *522-2004 IEEE Guide for Testing Turn-to-Turn Insulation on Form-Wound Stator Coils for Alternating-Current Rotating Electric Machines*
- *1043-1996 (reaff 2003) IEEE Recommended Test Procedure for Performing Voltage-Endurance Testing of Form-Wound Coils and Bars*
- *1107-1996 IEEE Recommended Practice for Thermal Evaluation of Sealed Insulation Systems for AC Electric Machinery Employing Random-Wound Stator Coils*
- *1310-1996 (2004 reaffirmed) IEEE Recommended Practice for Thermal Cycle Testing of Form-Wound Stator Bars and Coils for Large Generators, Chair: Greg Stone*
- *1434-2000 (reaff 2005) IEEE Guide to the Measurement of Partial Discharges in Rotating Machinery, Chair: Bill McDermid*
- *1553-2002 (reaff 2007) IEEE Test and Acceptance Criteria for Voltage-Endurance Testing of Form-Wound Coils and Bars used in Hydroelectric Generators and Large Pumped Storage Motors*
- *P1719 IEEE Guide for Evaluating Stator Cores of AC Electric Machines Rated 1 MVA and Higher, Chair: Glenn Mottershead*
- *1776 - 2009 IEEE Recommended Practice for Thermal Evaluation of Sealed or Unsealed Insulation Systems for AC Electric Machinery Employing Form-Wound Pre-Insulated Stator Coils for Machines Rated 15000 Volts and Below*
- *P1798 IEC 60034, Rotating Electrical Machines – Part 18-41: Qualification and Type Tests for Type I Electrical Insulation Systems Used in Rotating Electrical Machines Fed by Voltage Converters. Chair: Meredith Stranges*
- *P1799 IEEE Recommended Practice for Quality Control Testing of External Discharges on Form-Wound Coils, Vacuum Pressure Impregnated Stator Insulation and Fully Assembled Stator Windings. Chair: Remi Tremblay*
- *NEW - Endurance Test for Turn Insulation in Rotating Machine Coils*

Chair: Joe Williams III

- *NEW – IEEE Guide for Advanced Diagnostic Test Methods for AC Electric Machinery using Direct Voltage*, Chair: Laurent Lamarre, with Shawn Filiben as Secretary

6. Other MSC activities

- Awards and Recognition. Chair: Hugh Zhu

7. Liaison Reports

- CIGRE - Howard Sedding and Remi Tremblay
- IEC – Greg Stone
- ELECTRIC MACHINES COMMITTEE
- GENERATOR SC

8. Old Business

9. New Business

10. Next Meeting

11. Adjournment